

(i) Printed Pages: 2

Roll No. ....

(ii) Questions : 9

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Exam. Code : 

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B.A./B.Sc. (General) 1<sup>st</sup> Semester

1128

COMPUTER SCIENCE

Paper : CS01 : Theory-A : Computer Fundamentals

Time Allowed : Three Hours]

[Maximum Marks : 30

Note :— Students are required to attempt one question from each section. Section E is compulsory.

SECTION—A

1. What is Computer ? Explain the block diagram of Computer system. Discuss the working principles and applications of Computer. 6
2. Write notes on the following :
  - (a) Hardware and software
  - (b) Processing unit of computer
  - (c) Output devices of computer. 2×3=6

SECTION—B

3. What do you mean by computer memory ? What are standard units of computer memory ? Explain memory organization and types of memory. 6
4. Define computer memory. Explain types and features of (i) primary memory and (ii) secondary memory in detail. 6

### SECTION—C

5. (a) What do you mean by software ? Discuss different categories of software. 3
- (b) What do you mean by programming languages ? Explain the generations of programming languages. 3
6. Computer is a very important machine and has a number of applications. Discuss the applications of computer in fields like : education, remote sensing and industries. 6

### SECTION—D

7. What is an operating system ? Name few most commonly used operating systems. Explain the functions of operating system in detail. 6
8. (a) Justify the statement that “computer is an important tool of communication”. 3
- (b) What do you mean by computer networks and network protocol ? How the LAN is different from WAN ? 3

### SECTION—E

#### (Compulsory Question)

9. (a) What do you mean by an input device ? Which is your favourite input device ? How does it work and why is that device your favourite ? 2
- (b) Differentiate the sequential access memory and direct access memory. Also give the examples of both types. 2
- (c) What do you mean by translator ? What are different types of translators used by programming languages ? 2